

What is claimed is:

1. A fan rated junction box assembly comprising:

a top wall having a top surface, a bottom surface, and apertures therein;

5 a side wall extending from said bottom surface of said top wall and defining an open cavity therein, said side wall terminating in a planar bottom rim, said side wall including an outer surface;

a portion of said side wall bent at a right angle into said cavity and forming a ledge above said bottom rim;

10 a bore in said ledge, said bore in said ledge defining a first screw holder;

a first screw threadedly engaged in said first screw holder;

opposing slots in said side wall located in such a manner that a line centered through said slots divides said bottom rim into symmetrical halves;

two right angle support members having a first and a second leg;

15 said first leg secured to said outer surface of said side wall;

said second leg extending through said slots and having at least one threaded bore therein, said threaded bore in said second leg defining a second screw holder; and

a second screw threadedly engaged in said second screw holder.

20 2. The fan rated junction box assembly of claim 1 wherein

said second screw includes a head; and

said head of said second screw is completely contained within said open cavity when said second screw is fully threaded in said second screw holder.

3. The fan rated junction box assembly of claim 1 wherein
said first screw includes a head; and
said head of said first screw is substantially above said bottom rim when said first
5 screw is fully threaded in said first screw holder.

4. The fan rated junction box assembly of claim 1 wherein said top wall includes a
protruding area extending into said open cavity.

10 5. The fan rated junction box assembly of claim 4 wherein said protruding area
includes a threaded bore therein.

6. The fan rated junction box assembly of claim 5 wherein said threaded bore in
said protruding area includes a grounding screw therein.

15 7. The fan rated junction box assembly of claim 5 wherein said grounding screw
does not extend beyond said top surface of said top wall when said grounding screw is
threaded completely within said threaded bore in said protruding area.

20 8. The fan rated junction box assembly of claim 1 wherein
said side wall includes a first thickness;
said right angle support members include a second thickness; and

said second thickness of said right angle support member is greater than said first thickness of said side wall.

9. The fan rated junction box assembly of claim 1 wherein said top wall and said
5 side wall are formed integrally of steel.

10. The fan rated junction box assembly of claim 1 including one or more removable wall sections in said top wall and said side wall.

10 11. The fan rated junction box assembly of claim 10 wherein one or more of said removable wall sections can be removed to create openings therein in said walls.

12. The fan rated junction box assembly of claim 10 including a quick connect fitting in one or more of said openings.

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13. The fan rated junction box assembly of claim 1 wherein said threaded bores in said second legs of said right angle support members are spaced apart a distance equivalent to the distance between apertures in the mounting ring of a ceiling-mounted electrical device.

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14. The fan rated junction box assembly of claim 1 wherein said ceiling-mounted electrical device is secured to said fan-rated junction box by removing said second screws from said second screw holders, aligning said apertures in said mounting ring with said

threaded bores in said second legs, placing said second screws through said apertures in said mounting ring, and threading said second screws into said second screw holders.

15. The fan rated junction box assembly of claim 1 wherein said first screw holder
5 serves as a temporary repository for said first screw which can be removed there from and driven through one of said apertures in said top wall to secure said junction box to an overhead support.

16. A method of mounting a ceiling-mounted electrical device to an overhead
10 structure including the steps of:

providing a fan-rated junction box having a top wall with apertures therein, a side wall having an outer surface, an open cavity defined by said top wall and said side wall, a bottom rim, a ledge formed by a portion of said side wall bent at a right angle into said cavity, first screw holders in said ledge, first screws threadedly engaged in said first screw
15 holders, slots in said side wall, two right angle support members each having a first leg secured to said outer surface of said side wall and a second leg extending through said slots, second screw holders in said second legs, a second screw threadedly engaged in said second screw holder;

locating a suitable overhead support for said fan-rated junction box;
20 placing said fan-rated junction box against said overhead support;
drilling pilot holes into said overhead support at locations corresponding to said apertures in said top wall;

removing said first screws from said first screw holders in said ledge;

repositioning said first screws to said apertures in said top wall;

driving said first screws through said apertures in said top wall and completely
into said overhead support to secure said box to said overhead support;

removing said second screws from said second screw holders;

5 providing a ceiling-mounted electrical device having a mounting ring with
apertures and wiring leads therein;

placing said mounting ring against said bottom rim such that said apertures in said
mounting ring are in alignment with said threaded bores in said second legs;

driving said second screws through said apertures in said mounting ring and
10 partially into said second screw holders to temporarily hold said electrical device to said
box;

completing electrical wiring between supply wiring and said wiring leads to said
electrical device; and

driving said second screws completely into said second screw holders to secure
15 said electrical device to said box.

17. A fan rated junction box assembly comprising:

a top wall;

a side wall extending from said top wall and terminating in a bottom rim defining
20 a plane;

a portion of said side wall bent at a right angle and forming a ledge above said
bottom rim;

a bore in said ledge, said bore in said ledge defining a first screw holder;

a first screw temporarily engaged in said first screw holder;
opposing slots in said side wall;
two right angle support members having a first and a second leg;
said first leg secured to said side wall;

5 said second leg extending through said slots and having at least one threaded bore
therein, said threaded bore in said second leg defining a second screw holder;
a second screw temporarily engaged in said second screw holder; and
said first and said second screws completely enclosed within said top wall, said
side wall, and said plane of said bottom rim.

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18. The fan rated junction box assembly of claim 17 wherein
said side wall is of a first thickness;
said right angle support members are of a second thickness; and
said second thickness is greater than said first thickness.

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19. The fan rated junction box assembly of claim 18 including
apertures in said top wall;
a junction box defined by said top wall, said side wall, said right angle support

members, said first screws temporarily engaged in said first screw holders, and said

20 second screws temporarily engaged in said second screw holders; and

 said junction box securable to an overhead support by removing said first screws
from said first screw holders and driving said first screws through said apertures in said
top wall and into said overhead support.

20. The fan rated junction box assembly of claim 19 wherein the mounting ring of an electrical device is secured to said junction box by

unthreading said second screws from said second screw holders; and

5 rethreading said second screws through said mounting ring and into said second screw holders to secure said electrical device to said junction box.